

# Andrés Juan Valdés

## List of Publications by Year in descending order

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72  
papers

3,754  
citations

172457

29  
h-index

128289

60  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of the pre-saturation of recycled coarse concrete aggregates on concrete properties. Magazine of Concrete Research, 2011, 63, 617-627.	2.0	264
2	Water absorption and electrical resistivity of concrete with recycled concrete aggregates and fly ash. Cement and Concrete Composites, 2019, 95, 169-182.	10.7	204
3	Structural concrete with incorporation of coarse recycled concrete and ceramic aggregates: durability performance. Materials and Structures/Materiaux Et Constructions, 2009, 42, 663-675.	3.1	201
4	Influence of construction and demolition waste management on the environmental impact of buildings. Waste Management, 2012, 32, 532-541.	7.4	201
5	The past and future of sustainable concrete: A critical review and new strategies on cement-based materials. Journal of Cleaner Production, 2021, 281, 123558.	9.3	181
6	Compared environmental and economic impact from cradle to gate of concrete with natural and recycled coarse aggregates. Journal of Cleaner Production, 2017, 162, 529-543.	9.3	177
7	Life cycle assessment of concrete made with high volume of recycled concrete aggregates and fly ash. Resources, Conservation and Recycling, 2018, 139, 407-417.	10.8	175
8	Influence of water-reducing admixtures on the mechanical performance of recycled concrete. Journal of Cleaner Production, 2013, 59, 93-98.	9.3	173
9	Physical-chemical and mineralogical characterization of fine aggregates from construction and demolition waste recycling plants. Journal of Cleaner Production, 2013, 52, 438-445.	9.3	163
10	Study of the rheology of self-compacting concrete with fine recycled concrete aggregates. Construction and Building Materials, 2015, 96, 491-501.	7.2	147
11	Incorporation of fine concrete aggregates in mortars. Construction and Building Materials, 2012, 36, 960-968.	7.2	128
12	Eco-efficient concretes: The effects of using recycled ceramic material from sanitary installations on the mechanical properties of concrete. Waste Management, 2009, 29, 643-646.	7.4	121
13	Using fine recycled concrete aggregate for mortar production. Materials Research, 2014, 17, 168-177.	1.3	120
14	Effect of activated coal mining wastes on the properties of blended cement. Cement and Concrete Composites, 2012, 34, 678-683.	10.7	117
15	Maximum feasible use of recycled sand from construction and demolition waste for eco-mortar production - Part-I: ceramic masonry waste. Journal of Cleaner Production, 2015, 87, 692-706.	9.3	116
16	Recycled Aggregate in Concrete. Green Energy and Technology, 2013, , .	0.6	99
17	Effect of red mud (bauxite residue) as cement replacement on the properties of self-compacting concrete incorporating various fillers. Journal of Cleaner Production, 2019, 240, 118213.	9.3	91
18	Eco-efficient Concretes: Impact of the Use of White Ceramic Powder on the Mechanical Properties of Concrete. Biosystems Engineering, 2007, 96, 559-564.	4.3	84

#	ARTICLE	IF	CITATIONS
19	Pre-Saturation Technique of the Recycled Aggregates: Solution to the Water Absorption Drawback in the Recycled Concrete Manufacture. <i>Materials</i> , 2014, 7, 6224-6236.	2.9	72
20	Scientific Aspects of Kaolinite Based Coal Mining Wastes in Pozzolan/ $\text{Ca}(\text{OH})_2$ System. <i>Journal of the American Ceramic Society</i> , 2012, 95, 386-391.	3.8	65
21	Mechanical and microstructural characterization of non-structural precast concrete made with recycled mixed ceramic aggregates from construction and demolition wastes. <i>Journal of Cleaner Production</i> , 2018, 180, 482-493.	9.3	55
22	Quality improvement of mixed and ceramic recycled aggregates by biodeposition of calcium carbonate. <i>Construction and Building Materials</i> , 2017, 154, 1015-1023.	7.2	53
23	Mechanical Performance Evaluation of Self-Compacting Concrete with Fine and Coarse Recycled Aggregates from the Precast Industry. <i>Materials</i> , 2017, 10, 904.	2.9	51
24	Mechanical characterisation of traditional adobes from the north of Spain. <i>Construction and Building Materials</i> , 2011, 25, 3020-3023.	7.2	50
25	Microstructural Characterization of Concrete Prepared with Recycled Aggregates. <i>Microscopy and Microanalysis</i> , 2013, 19, 1222-1230.	0.4	43
26	Effect of mixed recycled aggregates on mechanical properties of recycled concrete. <i>Magazine of Concrete Research</i> , 2015, 67, 247-256.	2.0	38
27	Overview regarding construction and demolition waste in Spain. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 3050-3059.	2.2	37
28	Shrinkage and creep performance of concrete with recycled aggregates from CDW plants. <i>Magazine of Concrete Research</i> , 2017, 69, 974-995.	2.0	37
29	Mechanical and microstructural properties of recycled concretes mixed with ceramic recycled cement and secondary recycled aggregates. A viable option for future concrete. <i>Construction and Building Materials</i> , 2021, 270, 121455.	7.2	30
30	Recycling Aggregates for Self-Compacting Concrete Production: A Feasible Option. <i>Materials</i> , 2020, 13, 868.	2.9	29
31	Ceramic ware waste as coarse aggregate for structural concrete production. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 3050-3059.	2.2	27
32	Proportioning, Microstructure and Fresh Properties of Self-compacting Concrete with Recycled Sand. <i>Procedia Engineering</i> , 2017, 171, 645-657.	1.2	27
33	Caracterización de los hormigones realizados con áridos reciclados procedentes de la industria de cerámica sanitaria. <i>Materiales De Construccion</i> , 2011, 61, 533-546.	0.7	26
34	Quality Assessment of Mixed and Ceramic Recycled Aggregates from Construction and Demolition Wastes in the Concrete Manufacture According to the Spanish Standard. <i>Materials</i> , 2014, 7, 5843-5857.	2.9	24
35	Fracture energy of coarse recycled aggregate concrete using the wedge splitting test method: influence of water-reducing admixtures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	3.1	24
36	The Influence of Slate Waste Activation Conditions on Mineralogical Changes and Pozzolanic Behavior. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2276-2282.	3.8	22

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37	Thermal Performance of Concrete with Recycled Concrete Powder as Partial Cement Replacement and Recycled CDW Aggregate. Applied Sciences (Switzerland), 2020, 10, 4540.	2.5	22
38	Paving with Precast Concrete Made with Recycled Mixed Ceramic Aggregates: A Viable Technical Option for the Valorization of Construction and Demolition Wastes (CDW). Materials, 2019, 12, 24.	2.9	20
39	Evaluation of Mechanical Characteristics of Cement Mortar with Fine Recycled Concrete Aggregates (FRCA). Sustainability, 2021, 13, 414.	3.2	19
40	Effect of Design Parameters on Compressive and Split Tensile Strength of Self-Compacting Concrete with Recycled Aggregate: An Overview. Applied Sciences (Switzerland), 2021, 11, 6028.	2.5	17
41	Porosity and pore size distribution in recycled concrete. Magazine of Concrete Research, 2015, 67, 1214-1221.	2.0	14
42	Recycled Aggregate Concrete. , 2019, , 365-418.		14
43	Influence of Design Parameters on Fresh Properties of Self-Compacting Concrete with Recycled Aggregate—A Review. Materials, 2020, 13, 5749.	2.9	14
44	Establishing stress state of cylindrical metal silos using finite element method: Comparison with ENV 1993. Thin-Walled Structures, 2006, 44, 1192-1200.	5.3	12
45	Proportioning, fresh-state properties and rheology of self-compacting concrete with fine recycled aggregates. Hormigon Y Acero, 2018, 69, 213-221.	0.2	12
46	Estado actual de la gestión de residuos de construcción y demolición: limitaciones. Informes De La Construcción, 2011, 63, 89-95.	0.3	12
47	Effects of Environmental Temperature Changes on Steel Silos. Biosystems Engineering, 2006, 94, 229-238.	4.3	11
48	Construction and demolition waste. , 2019, , 1-22.		11
49	Effect of surface biotreatments on construction materials. Construction and Building Materials, 2020, 241, 118019.	7.2	11
50	Influence of Moisture States of Recycled Coarse Aggregates on the Slump Test. Advanced Materials Research, 2013, 742, 379-383.	0.3	10
51	Upscaling the Use of Mixed Recycled Aggregates in Non-Structural Low Cement Concrete. Materials, 2016, 9, 91.	2.9	10
52	Properties and Composition of Recycled Aggregates. , 2019, , 89-141.		9
53	Characterization of Colliery Spoils in León: Potential Uses in Rural Infrastructures. Geotechnical and Geological Engineering, 2014, 32, 439-452.	1.7	8
54	A sustainable production of natural hydraulic lime mortars through bio-amendment. Construction and Building Materials, 2022, 340, 127812.	7.2	8

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55	Porosity and pore size distribution in recycled concrete. Magazine of Concrete Research, 2015, 67, 1214-1221.	2.0	7
56	Mineralogical and mechanical characterization of rammed earth external renderings of the south of Portugal. Construction and Building Materials, 2019, 225, 1160-1169.	7.2	7
57	Effect of pores on the mechanical and durability properties on high strength recycled fine aggregate mortar. Case Studies in Construction Materials, 2022, 16, e01050.	1.7	7
58	Use of Recycled Aggregates in Mortar. , 2019, , 143-179.		5
59	Recycled Precast Concrete Kerbs and Paving Blocks, a Technically Viable Option for Footways. Materials, 2021, 14, 7007.	2.9	4
60	Sustainable cement mortar bioformulated with a bioproduct obtained from fermentation of biodiesel™ crude glycerol. Journal of Cleaner Production, 2021, 313, 127885.	9.3	3
61	Normative review and necessary advances to promote the use of recycled aggregates and by-products in cement-based materials. , 2021, , 735-776.		3
62	Biotreatments Using Microbial Mixed Cultures with Crude Glycerol and Waste Pinewood as Carbon Sources: Influence of Application on the Durability of Recycled Concrete. Materials, 2022, 15, 1181.	2.9	3
63	Testing concrete made with cork powder and steel fibres. Scientific Research and Essays, 2012, 7, 3974-3982.	0.4	2
64	Self-healing concrete with recycled aggregates. , 2020, , 355-383.		2
65	Influence of the use of External Carbon Fiber Reinforcement on the Flexural Behavior of Prismatic Concrete Test Specimens. An Application for Repairing of Deteriorated Agricultural Structures. Materials, 2019, 12, 1894.	2.9	1
66	Fresh Concrete Properties. , 2019, , 181-218.		1
67	Strength Development of Concrete. , 2019, , 219-282.		1
68	Use of Bioproducts Derived from Mixed Microbial Cultures Grown with Crude Glycerol to Protect Recycled Concrete Surfaces. Materials, 2021, 14, 2057.	2.9	1
69	Use of Mixed Microbial Cultures to Protect Recycled Concrete Surfaces: A Preliminary Study. Materials, 2021, 14, 6545.	2.9	1
70	Standardization as a Driving Force of the use of Recycled Coarse Aggregate in Concrete. Advanced Materials Research, 2013, 742, 371-378.	0.3	0
71	Eurocode 1-6 in buckling calculation of agricultural steel silos. Informes De La Construccion, 2002, 54, .	0.3	0
72	Macroscopic mechanical characterization of self-compacting recycled concrete mixed with natural lime filler. , 2022, , 303-322.		0